

Original MLULSP instance
 (centralized planning)
 ($N = 5$ items; $T = 12$ periods)

5	12	1
1	0.073205	
2	0.06655	
3	0.0605	
4	0.055	
5	0.05	

$N = 5$ items; $T = 12$ periods; $R = 1$ end-product

inventory-holding costs for 5 items

1	1.28	
2	3.2	
3	8.0	
4	20.0	
5	50.0	

setup costs for 5 items

1	80	
2	100	
3	125	
4	100	
5	50	
6	50	
7	100	
8	125	
9	125	
10	100	
11	50	
12	100	

independent demand for 12 periods

1	2	
2	3	
3	4	
4	5	
5		

product structure

Extension
 (decentralized planning)
 ($n = 2, 5$ agents or facilities)

1	2	
3	4	5

case $n = 2$ (random distribution):

agent 1 : items 1, 2

agent 2: items 3, 4, 5

uniform distribution

case $n = 5$ (uniform distribution):

agent 1 : item 1

agent 2: item 2

agent 3: item 3

agent 4: item 4

agent 5: item 5